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Claims

Delete Claims 1 - 12

- 13. (New) A computer-based software method for creating and modifying a nested data base, comprising the steps of:
- 5 (a) creating a multiplicity of component packets, each of which is further associated with a key and is indexed by a keyed search structure, each such component packet further comprising one or more components, wherein the components further comprise:
 - (i) a plurality of component data records, wherein each component
- 10 data record further comprises an entry point of the keyed search structure;
 - (ii) a plurality of component description records arranged in an array, each component description record further comprising a component identifier which is unique within the component packet's
- 15 component description records, and which further comprises:
 - (iil) a size field;
 - (ii2) a logical block number field;
 - (ii3) a component packet offset; and
 - (ii4) a header record, which further comprises a total size field and
- 20 a number of components field;
 - (b) transferring one or more of the data records from an applications program to the database:
 - (c) transferring one or more of the data records from the database to the applications program;
- 25 (d) adding a new component;

- (e) modifying an existing component by changing the component data record without changing component size;
- (f) modifying an existing component by increasing or decreasing its size; and
- 5 (g) deleting an existing component packet.
 - 14. (NEW) The method of claim 13, further comprising reading the whole nested database in a single disk access when the size of the database so permits.
 - 15. (NEW) The method of claim 14, further comprising making additional accesses to the nested database when, and only when the
- size of the component data records grows past a particular size 1.
 - 16. (New) The method of claim 15, further comprising generating of an indexed/keyed collection of other component packets from one or more pre-existing component packets.
- 15 17. (NEW) The method of claim 14, further comprising making additional accesses to the nested structure when, and only when the number of the component data records grows past a number n.
 - 18. (New) The method of claim 17, further comprising generating of an indexed/keyed collection of other component packets from one or
- 20 more pre-existing component packets.
 - 19. (NEW) A computer-based system for creating and modifying a nested data base, comprising:
 - (a) means for creating a multiplicity of component packets, each of which is further associated with a key and is indexed by a keyed
- 25 search structure, each such component packet further comprising one

or more components, wherein the components further comprise:

- (i) a plurality of component data records, wherein each component data record further comprises an entry point of the keyed search structure;
- 5 (ii) a plurality of component description records arranged in an array, each component description record further comprising a component identifier which is unique within the component packet's component description records, and which further comprises:
 - (iil) a size field;

15

- 10 (ii2) a logical block number field;
 - (ii3) a component packet offset; and
 - (ii4) a header record, which further comprises a total size field and a number of components field;
 - (b) means for transferring one or more of the data records from an applications program to the database;
 - (c) means for transferring one or more of the data records from the database to the applications program;
 - (d) means for adding a new component;
 - (e) means for modifying an existing component by changing the
- 20 component data record without changing component size;
 - (f) means for modifying an existing component by increasing or decreasing its size; and
 - (g) means for deleting an existing component packet.
 - 20. (NEW) The system of claim 19, further comprising means for
- 25 reading the whole nested database in a single disk access when the

size of the database so permits.

10

- 21. (NEW) The system of claim 20, further comprising means for making additional accesses to the nested database when, and only when the size of the component data records grows past a particular size 1.
- 5 22. (New) The system of claim 21, further comprising means for generating of an indexed/keyed collection of other component packets from one or more pre-existing component packets.

number of the component data records grows past a number n.

- 23. (NEW) The system of claim 20, further comprising means for making additional accesses to the nested structure when, and only when the
- 24. (New) The system of claim 23, further comprising means for generating of an indexed/keyed collection of other component packets from one or more pre-existing component packets.